

South Coast NOx Reductions from Measure Concepts

NOx emission reductions in tons per day (tpd) from current levels

Measure Concepts	Agency	80% Reduction 75 ppb Standard (2031)	70% Reduction 80 ppb Standard (2023)
On-Road Light-Duty			
Reductions from Current Control Programs		59	47
Advanced Clean Cars 2	ARB	0.6	-
In-Use Performance Assessment	ARB / BAR	NYQ	NYQ
Further Deployment of Cleaner Technologies	ARB / SCAQMD	5	7
Total Category Reductions		65	54
On-Road Heavy-Duty			
Reductions from Current Control Programs		115	97
Lower In-Use Emission Performance Level	ARB	NYQ	NYQ
Low-NOx Engine Standard – California Action	ARB	7	-
Low-NOx Engine Standard – Federal Action	U.S. EPA	13	-
Heavy-Duty GHG Phase II	U.S. EPA	NYQ	NYQ
Advanced Clean Transit	ARB	0.1	<0.1
Last Mile Delivery	ARB	0.3	<0.1
Innovative Technology Certification Flexibility	ARB	NYQ	NYQ
Zero Emission Airport Shuttle Buses	ARB / SCAQMD	<0.1	<0.1
Incentive Funding to Achieve Further Emission Reductions from Heavy-Duty Vehicles	ARB / SCAQMD	3	3
Further Deployment of Cleaner Technologies	ARB / SCAQMD	11	34
Total Category Reductions		149	134
Off-Road Federal and International Sources*			
Reductions from Current Control Programs		15	9
Tier 5 National Locomotive Emissions Standards	U.S. EPA	0.5	NYQ
Amend Definition of New Locomotive Engine	U.S. EPA	-	-
Regulation of Non-New Locomotives	ARB / U.S. EPA	7	-
Tier 4 Vessel Standards	ARB / IMO	3	-
Incentivize Super Low Emission Efficient Ship Visits	ARB	NYQ	NYQ
At-Berth Regulation Amendments	ARB	1	.5
Further Deployment of Cleaner Technologies	ARB / SCAQMD/ U.S. EPA	38	48
Total Category Reductions		65	58
Off-Road Equipment Sources			
Reductions from Current Control Programs		32	23
Zero Emission Off-Road Forklift Regulation Phase 1	ARB	<0.1	-
Zero Emission Off-Road Emission Reduction Assessment	ARB	NYQ	NYQ
Zero Emission Off-Road Worksite Emission Reduction Assessment	ARB	NYQ	NYQ
Zero Emission Airport Ground Support Equipment	ARB	<0.1	<0.1
Small Off-Road Engines	ARB	3	0.7
Transport Refrigeration Units Used for Cold Storage	ARB	NYQ	NYQ
Low-NOx, Low-PM, Low Carbon Intensity Diesel Requirement	ARB	2	0.6
Further Deployment of Cleaner Technologies	ARB / SCAQMD	10	14
Total Category Reductions		47	38
Total Expected NOx Emission Reductions		326	284

* Quantification of emission reductions are based on current growth forecasts, which are undergoing review